

6W6-GT

BEAM POWER AMPLIFIER

GENERAL DATA
Electrical:
Heater, for Unipotential Cathode: Voltage 6.3 ac or dc volts Current 1.2 amp Direct Interelectrode Capacitances (Approx.): Grid No.1 to Plate 0.5 max μμf Input μμf Output μμf
Characteristics as Beam Power Amplifier: See AMPLIFIER—Class A ₁ below:
Characteristics as Triode-Connected Amplifier:
(Grid No.2 connected to plate)
Plate Voltage 225 volts Grid-No.1 Voltage -30 volts Amplification Factor 6.2 Plate Resistance 1600 ohms Transconductance 3800 μmhos Plate Current 22 ma Grid-No.1 Voltage (Approx.) for plate current of 0.5 ma -42 volts
Mechanical:
Mounting Position
Pin 1-No Connection Pin 2-Heater Pin 3-Plate Pin 4-Grid No.2 Pin 5-Grid No.1 Pin 7-Heater Pin 8-Cathode, Grid No.3
AMPLIFIERClass A
Maximum Ratings, Design-Center Values:PLATE VOLTAGE
← Indicates a change,
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OCT. 1, 1953

DEPARTMENT TENTATIVE DATA

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

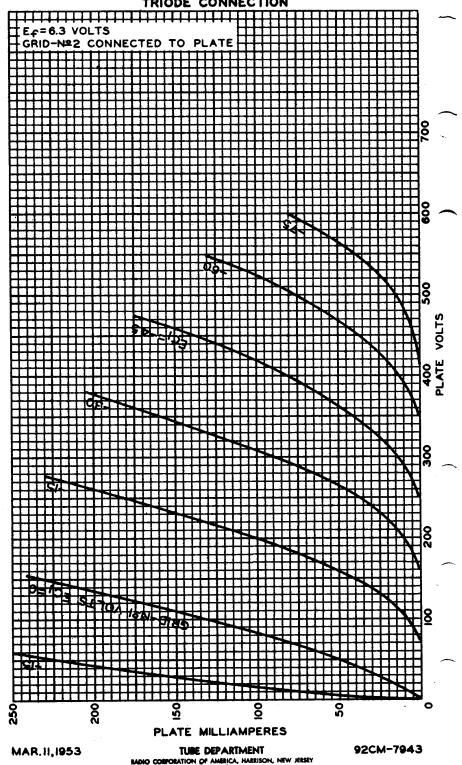


PEAK HEATER-CATHODE VOLTAGE: Heater negative with respect to cathode . 200 max. volts Heater positive with respect to cathode . 200 max. volts	
Typical Operation and Characteristics:	Ī
Plate Supply Voltage	
Max.—Signal Power Output 2.1 3.8 watts	3
Maximum Circuit Values:	1
Grid-No.1-Circuit Resistance: For fixed-bias operation 0.1 max. megohn For cathode-bias operation 0.5 max. megohn	•
VERTICAL DEFLECTION AMPLIFIER	
Triode Connected-Grid No.2 Connected to Plate	1
Maximum Ratings, Design-Center Values Except As Noted:	
For operation in a 525-line, 30-frame system	
DC PLATE VOLTAGE 300 max. volts PEAK POSITIVE—PULSE PLATE VOLTAGEO 1200 max. volts PEAK NEGATIVE—PULSE GRID—No.1	
(CONTROL-GRID) VOLTAGE250 max. volts	
Peak	
Heater negative with respect to cathode . 200 max. volts	1
Heater positive with respect to cathode . 200 max. volts	
Heater negative with respect to cathode . 200 max. volts Heater positive with respect to cathode . 200 max. volts Maximum Circuit Values: Grid-No.1-Circuit Resistance: For cathode-bias operation 2.2 max. megohms The dc component must not exceed 100 volts. As described in "Standards of Good Engineering Practice for Television Broadcast Stations", Federal Communications Commission. The duration of the voltage pulse must not exceed 15 per cent of one scanning cycle. In a 525-line, 30-frame system, 15 per cent of one scanning cycle is 2.5 milliseconds.	-

6H8-CT



AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION





AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION

